

PN5033

SILICON
P-CHANNEL JFET



www.centrasemi.com

The CENTRAL SEMICONDUCTOR PN5033 is a silicon P-Channel JFET designed for general purpose amplifier applications.



TO-92 CASE

MARKING: FULL PART NUMBER

MAXIMUM RATINGS: ($T_A=25^{\circ}\text{C}$)

Drain-Source Voltage

Drain-Gate Voltage

Gate-Source Voltage

Continuous Gate Current

Power Dissipation

Operating and Storage Junction Temperature

SYMBOL

V_{DS}

V_{DG}

V_{GS}

I_G

P_D

T_J, T_{stg}

10

10

10

10

310

-65 to +150

UNITS

V

V

V

mA

mW

$^{\circ}\text{C}$

ELECTRICAL CHARACTERISTICS: ($T_A=25^{\circ}\text{C}$ unless otherwise noted)

SYMBOL

TEST CONDITIONS

MIN

MAX

UNITS

I_{GSS}

$V_{GS}=15\text{V}$

10

nA

I_{DSS}

$V_{DS}=10\text{V}$

0.3

3.5

mA

BV_{GSS}

$I_G=10\mu\text{A}$

10

V

$V_{GS}(\text{OFF})$

$V_{DS}=10\text{V}, I_D=1.0\text{nA}$

0.3

2.5

V

C_{iss}

$V_{DS}=10\text{V}, V_{GS}=0$

20

pF

C_{rss}

$V_{DS}=10\text{V}, V_{GS}=0$

7.0

pF

gFS

$V_{DS}=10\text{V}$

1.0

5.0

mS

eN

$f=100\text{Hz}$

100

nV/ $\sqrt{\text{Hz}}$

R0 (25-June 2021)

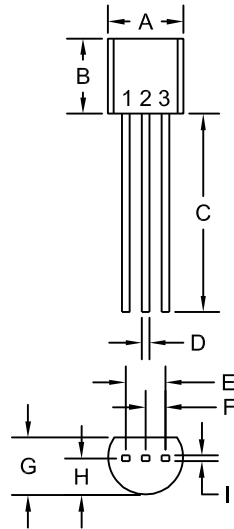
PN5033

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TO-92 CASE - MECHANICAL OUTLINE



R1

SYMBOL	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A (DIA)	0.175	0.205	4.45	5.21
B	0.170	0.210	4.32	5.33
C	0.500	-	12.70	-
D	0.016	0.022	0.41	0.56
E	0.100		2.54	
F	0.050		1.27	
G	0.125	0.165	3.18	4.19
H	0.080	0.105	2.03	2.67
I	0.015		0.38	

TO-92 (REV: R1)

LEAD CODE:

- 1) Gate
- 2) Drain
- 3) Source

MARKING:

FULL PART NUMBER

R0 (25-June 2021)

OUTSTANDING SUPPORT AND SUPERIOR SERVICES



PRODUCT SUPPORT

Central's operations team provides the highest level of support to insure product is delivered on-time.

- Supply management (Customer portals)
- Inventory bonding
- Consolidated shipping options
- Custom bar coding for shipments
- Custom product packing

DESIGNER SUPPORT/SERVICES

Central's applications engineering team is ready to discuss your design challenges. Just ask.

- Free quick ship samples (2nd day air)
- Online technical data and parametric search
- SPICE models
- Custom electrical curves
- Environmental regulation compliance
- Customer specific screening
- Up-screening capabilities
- Special wafer diffusions
- PbSn plating options
- Package details
- Application notes
- Application and design sample kits
- Custom product and package development

REQUESTING PRODUCT PLATING

1. If requesting Tin/Lead plated devices, add the suffix "TIN/LEAD" to the part number when ordering (example: 2N2222A TIN/LEAD).
2. If requesting Lead (Pb) Free plated devices, add the suffix "PBFREE" to the part number when ordering (example: 2N2222A PBFREE).

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